



# UNITED STATES PATENT AND TRADEMARK OFFICE

Ifw

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/614,212

07/08/2003

Shiguro Obara

110007.01

7316

25944 7590 12/27/2006  
OLIFF & BERRIDGE, PLC  
P.O. BOX 19928  
ALEXANDRIA, VA 22320



EXAMINER

TAOUSAKIS, ALEXANDER P

ART UNIT

PAPER NUMBER

3726

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
--	-----------	---------------

2 MONTHS

12/27/2006

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Office Action Summary

Application No.

10/614,212

Applicant(s)

OBARA ET AL.

Examiner

Alexander P. Taousakis

Art Unit

3726

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 12 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 5 and 9-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 5 and 9-15 is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☒ Claim(s) 5 and 9-15 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Specification***

The disclosure is objected to because of the following informalities: On page 9 lines 5-6, the applicant discloses the various processes "had better be sequentially performed in a clean room". The use of "had better be" is ambiguous, and it is suggested applicant change this phrase to make it more explicit, e.g. by changing "had better be" to --are--.

Appropriate correction is required.

### ***Claim Objections***

Claims 5 and 9-15 are objected to because of the following informalities:

Claim 5: In line 2, "said ball bearing" should be --said ball bearings--.

In line 3, "opened" should be --open--.

Claim 11: In line 2, "outer" should be --inner--.

Appropriate correction is required.

### ***Allowable Subject Matter***

Claims 5 and 9-15 are allowed.

The following is an examiner's statement of reasons for allowance:

Art Unit: 3726

The method for manufacturing spindle motors typically involves assembly of the individual components, while keeping the disk drives free from contaminants. The claimed subject matter is allowable because the prior art fails to teach a method of manufacturing a spindle motor, including a bearing washing process, a bearing grease filling process, and a bearing mounting process where these processes are performed sequentially in an assembly process under a clean environment. The applicant's invention reduces the manufacturing cost of the spindle motor because the spindle motor and the ball bearing assembly can be assembled simultaneously.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

This application is in condition for allowance except for the following formal matters:

See the objections noted above..

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Art Unit: 3726

**Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander P. Taousakis whose telephone number is (571) 272 – 3497. The examiner can normally be reached on Monday-Friday (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David P. Bryant can be reached at (571) 272- 4526.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published publication may be obtained from either private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alexander P. Taousakis

Examiner

Art Unit 3726

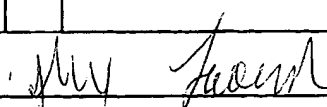


DAVID P. BRYANT  
SUPERVISORY PATENT EXAMINER

12/19/06

apt

12/19/2006

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce <b>PATENT &amp; TRADEMARK OFFICE</b>		ATTY DOCKET NO. 110007.01		Rule 53(b) Continuing Application of U.S. Application No. 09/895,176 Filed July 2, 2001	
<b>INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)				APPLICANTS Rikuro OBARA and Kenii FUKUNAGA			
				FILING DATE July 8, 2003			
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
AT		US005336955A	08/1994	Suzuki			
AT		US005841210A	11/1998	Obara			
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
EXAMINER				DATE CONSIDERED			
				12/13/06			
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: July 8, 2003

**Notice of References Cited**

Application/Control No.

10/614,212

Applicant(s)/Patent Under

Reexamination

OBARA ET AL.

Examiner

Alexander P. Taousakis

Art Unit

3726

Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-3,557,807	01-1971	Schipke, Robert N.	134/1
*	B	US-6,194,360	02-2001	Karis et al.	508/438
*	C	US-5,925,955	07-1999	Norris, Russell Hughes	310/90
*	D	US-5,132,856	07-1992	Takahashi, Masahiro	360/99.08
*	E	US-4,018,679	04-1977	Bolsing, Friedrich	405/264
*	F	US-5,932,941	08-1999	Kinoshita et al.	310/44
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450  
If Undeliverable Return in Ten Days

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

AN EQUAL OPPORTUNITY EMPLOYER

